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EXAMINER

ALI, FARHAD

ART UNIT

PAPER NUMBER

2446

NOTIFICATION DATE

DELIVERY MODE

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ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/671,706	<b>Applicant(s)</b> HWANG, HYE-SOOK	
	<b>Examiner</b> FARHAD ALI	<b>Art Unit</b> 2446	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 December 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 15-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 and 15-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### **Status of Claims:**

**Claims 1-13 and 15-17 are pending in this Office Action.**

**Claims 1,2,6 and 17 are amended.**

**Claims 14 is cancelled.**

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zintel (US 6,779,004 B1) in view of Slaughter et al. (US 6,970,869 B1), hereinafter Slaughter.

### **Claim 1**

Zintel teaches a selective device recognition apparatus in a UPnP based home network, the apparatus comprising: a network stream processing unit configured to parse a device characteristic data of a device and to read a network transmission possible identifier and a device characteristic identifier, the device being automatically detectable in the UPnP based home network (**Column 7 Lines 8-23 “User Control Point” and “The set of modules that enable communication with a UPnP**

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**Controlled Device...”; and see Table on column 14 “Description Client” which “receive description documents”).**

Zintel does not specifically disclose a network transmission judging unit configured to compare the read network transmission possible identifier with a preset network transmission possible identifier recorded in a transmission judgment table, to judge whether to perform network transmission of the device characteristic data according to a result of the comparison, and to transmit the device characteristic data only when the network transmission possible identifier read from the network stream processing unit is matched with the present network transmission possible identifier recorded in the transmission judgment table.

Slaughter teaches in Column 7 lines 42-57, “Service providers (or a listener agent) may respond to search requests by publishing or providing corresponding advertisements or URIs to corresponding advertisements. When a service provider responds to a discovery search request (either directly or through a listener agent), the provider may choose to publish a protected or an un-protected (complete) advertisement. A protected advertisement may include the set of information necessary to obtain a complete advertisement. Publishing a protected advertisement, forces the client to the obtain a valid credential from an authentication service before receiving the complete un-protected advertisement from the service provider. A complete un-protected advertisement is needed to create a gate, and therefore to use the service” in order to “provide an additional level of security for the service provider” (Column 7 lines 58-60).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Zintel to include "Service providers (or a listener agent) may respond to search requests by publishing or providing corresponding advertisements or URIs to corresponding advertisements. When a service provider responds to a discovery search request (either directly or through a listener agent), the provider may choose to publish a protected or an un-protected (complete) advertisement. A protected advertisement may include the set of information necessary to obtain a complete advertisement. Publishing a protected advertisement, forces the client to obtain a valid credential from an authentication service before receiving the complete un-protected advertisement from the service provider. A complete un-protected advertisement is needed to create a gate, and therefore to use the service" as taught by Slaughter in order to "provide an additional level of security for the service provider" (Column 7 lines 58-60).

### **Claim 2**

Zintel teaches the apparatus of claim 1, further comprising:  
a network interface configured to receive the device characteristic data transmitted from a home network device **(Column 7 Lines 8-23 "User Control Point" and "The set of modules that enable communication with a UPnP Controlled Device...")**.

### **Claim 3**

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Zintel teaches the apparatus of claim 1, wherein the network stream processing unit includes:

a preprocessor configured to parse the device characteristic data;

a buffer manager configured to temporally store the device characteristic data parsed in the preprocessor in a buffer and to output a registry signal corresponded thereto;

and an identifier reader configured to search the device characteristic data temporally stored in the buffer according to the registry signal outputted from the buffer manager and read the device characteristic identifier and the network transmission identifier **(See Figure 21. "Processing Unit" "RAM" "LAN" and "Applications")**.

#### **Claim 4**

Zintel teaches the apparatus of claim 3, wherein the preprocessor performs parsing of the device characteristic data by device characteristic data units divided by a token(/) **(See Figure 16 XML data in token format)**.

#### **Claim 5**

Zintel teaches the apparatus of claim 1, wherein the network transmission judging unit includes:

a device characteristic identifier detecting module configured to detect a device characteristic identifier that is the same with the device characteristic identifier read from the network stream processing unit;

a network transmission possible identifier comparing module configured to compare the network transmission possible identifier detected by the device characteristic identifier detecting module with the network transmission possible identifier read from the network stream processing unit; and

a transmission judging module configured to judge whether it is possible to perform the network transmission of the device characteristic data indicated by the device characteristic identifier according to the comparison result **(Column 11 Lines14-15 “Discovery Client” is “The module that runs in a User Control Point that initiates SSDP queries” and Column 14 Line 9 “Description Client” and see Figure on column 14 “Description Client” which “receive description documents” and Column 7 Lines 8-23 “User Control Point” and “The set of modules that enable communication with a UPnP Controlled Device...”)**.

#### **Claim 6**

Zintel teaches a selective device recognition method in a UPnP based home network, the method comprising:

receiving and parsing a device characteristic data of a device, the device being automatically detectable in the UPnP based home network **(see Figure on column 14 “Description Client” which “receive description documents”)**;

reading a device characteristic identifier and a network transmission possible identifier from the parsed device characteristic data **(Column 11 Lines14-15 “Discovery Client” is “The module that runs in a User Control Point that initiates**

**SSDP queries” and Column 9 Lines 6-8 “Description Document” “A structured unit of data that is used by a User Control Point or UPnP Bridge to learn the capabilities of a Controlled Device”).**

Zintel does not specifically disclose comparing the read network transmission possible identifier with a preset network transmission possible identifier recorded in a transmission judgment table, judging whether to perform network transmission of the device characteristic data corresponded to the read device characteristic identifier is performed according to a result of the comparison, and transmitting the device characteristic data only when the read network transmission possible identifier is matched with the preset network transmission possible identifier recorded in the transmission judgment table.

Slaughter teaches in Column 7 lines 42-57, “Service providers (or a listener agent) may respond to search requests by publishing or providing corresponding advertisements or URIs to corresponding advertisements. When a service provider responds to a discovery search request (either directly or through a listener agent), the provider may choose to publish a protected or an un-protected (complete) advertisement. A protected advertisement may include the set of information necessary to obtain a complete advertisement. Publishing a protected advertisement, forces the client to the obtain a valid credential from an authentication service before receiving the complete un-protected advertisement from the service provider. A complete un-protected advertisement is needed to create a gate, and therefore to use the service” in



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order to “provide an additional level of security for the service provider” (Column 7 lines 58-60).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Zintel to include “Service providers (or a listener agent) may respond to search requests by publishing or providing corresponding advertisements or URIs to corresponding advertisements. When a service provider responds to a discovery search request (either directly or through a listener agent), the provider may choose to publish a protected or an un-protected (complete) advertisement. A protected advertisement may include the set of information necessary to obtain a complete advertisement. Publishing a protected advertisement, forces the client to obtain a valid credential from an authentication service before receiving the complete un-protected advertisement from the service provider. A complete un-protected advertisement is needed to create a gate, and therefore to use the service” as taught by Slaughter in order to “provide an additional level of security for the service provider” (Column 7 lines 58-60).

### **Claim 7**

Zintel teaches the method of claim 6, wherein parsing the received device characteristic data is performed by device characteristic data units divided by a token(/) or parsing the received device characteristic data is performed by inserting a null string after the token in the parsing step **(Column 33 Lines 36-42 “SzHeaders [in] null-terminated text string containing the headers for the event, each separated by**

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**CRLF. SzEventBody [in] null-terminated text string containing the body of the event message”).**

#### **Claim 8**

Zintel teaches the method of claim 6, wherein the device characteristic data is a request message for UPnP device recognition in a UPnP CP (control point) device **(Column 11 Lines14-15 “Discovery Client” is “The module that runs in a User Control Point that initiates SSDP queries”).**

#### **Claim 9**

Zintel teaches the method of claim 8, wherein the request message includes inherent network transmission possible identifier information per each device characteristic identifier **(Applicant admits inherency in the claim).**

#### **Claim 10**

Zintel teaches the method of claim 8, wherein the UPnP device includes the network transmission possible identifier, and recognition is judged by the UPnP CP device **(See Figure 10 and see Table on column 14 “Discovery Client” “Discovery Server” “Description Client” “Description Server” and “Control Server”).**

#### **Claim 11**

Zintel teaches the method of claim 8, wherein the UPnP CP device and the UPnP device exist in a same local network (**See Figure 2 User Control Point and Controlled Device**).

#### **Claim 12**

Zintel teaches the method of claim 6, wherein the device characteristic data is an advertisement message for notifying a UPnP device itself (**see Figure on column 14 “Description Server” which “Provide description documents”**).

#### **Claim 13**

Zintel teaches the method of claim 12, wherein the advertisement message includes inherent network transmission possible identifier information per each device characteristic identifier (**Applicant admits inherency in the claim**).

#### **Claim 15**

Zintel teaches the method of claim 6, wherein the network transmission judging step includes:

outputting a request message to a UPnP CP (control point) device for a message not having network transmission possible identifier information;

and sequentially comparing each network transmission possible identifier with each network transmission possible identifier of a UPnP device for a message having network transmission possible identifier information and transmitting a response

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message to the UPnP CP device according to the comparison result **(Column 21 Lines 5-14 “User Control Points 104 are not required to have any prior knowledge of the SCPs 402 required to control the Services on the various devices. Therefore, a Controlled Device or Bridge must be able to describe to a User Control Point the protocols required to control its Services, such that the User Control Point will be able to implement these protocols dynamically”).**

### **Claim 16**

Zintel teaches the method of claim 6, wherein the network transmission judging step includes:

recognizing a UPnP device by a general recognition process for a message not having the network transmission possible identifier information; and

sequentially the comparing network transmission possible identifier information with a network transmission possible identifier of a UPnP CP device when the network transmission possible identifier information is detected and recognizing a pertinent device and a service according to the comparison result **(Column 21 Lines 5-14 “User Control Points 104 are not required to have any prior knowledge of the SCPs 402 required to control the Services on the various devices. Therefore, a Controlled Device or Bridge must be able to describe to a User Control Point the protocols required to control its Services, such that the User Control Point will be able to implement these protocols dynamically”).**

### **Claim 17**

Claim 17 is similar to scope of claims 1 and 6 and is rejected similarly to the reasons discussed above.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to FARHAD ALI whose telephone number is (571)270-1920. The examiner can normally be reached on Monday thru Friday, 7:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey C. Pwu can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Farhad Ali/  
Examiner, Art Unit 2446

/Jeffrey Pwu/

Supervisory Patent Examiner, Art Unit 2446